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# NOTICE OF ALLOWANCE AND FEE(S) DUE

22429 7590 01/12/2009 LOWE HAUPTMAN HAM & BERNER, LLP 1700 DIAGONAL ROAD SUITTE 300

ALEXANDRIA, VA 22314

EXAMINER

MOON, SEOKYUN

ART UNIT PAPER NUMBER

2629

DATE MAILED: 01/12/2009

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/511,868	10/16/2004	Kwok Hong Luk	T4957-B003	8915		
TITLE OF INVENTION: PROGRAMMABLE DRIVERS FOR DISPLAY DEVICES						

APPLN. TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE DUE	PREV. PAID ISSUE FEE	TOTAL FEE(8) DUE	DATE DUE
nonprovisional	NO	\$1510	\$300	\$0	\$1810	04/13/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT, PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

#### HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and I/2 the ISSUE FFE shown above.

II. PART B - FEE(S) TRANSMITTAL, or its equivalent, must be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted. If an equivalent of Part B is filed, a request to reapply a previously paid issue fee must be clearly made, and delays in processing may occur due to the difficulty in recognizing the paper as an equivalent of Part B.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

## PART B - FEE(S) TRANSMITTAL

# Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or Fax (571)-273-2885

INSTRUCTIONS: This appropriate. All further indicated unless correcte maintenance fee notificat	form should be used f correspondence includir d below or directed oth ions.	or tran	smitting the ISSU Patent, advance or in Block 1, by (a							
CURRENT CORRESPONDENCE ADDRESS (Note: Use Block 1 for any change of address)				Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.						
22429	7590 01/12					Cer	tificate	of Mailing or Trans	mission	
LOWE HAUPTMAN HAM & BERNER, LLP 1700 DIAGONAL ROAD SUITE 300					I hereby certify that this Pe(s) Transmission  I hereby certify that this Pe(s) Transmistal is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUE FEE address above, or being facsimile transmitted to the USPTO (571) 273-2885, on the date indicated below.					
ALEXANDRIA, VA 22314									(Depositor's n	ame)
									(Signa	ture)
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APPLICATION NO.	FILING DATE			FIRST NAMED INVENTOR			ATTORNEY DOCKET NO. CONFIRMATION N			
10/511,868	10/16/2004			Kwok Hong Luk				T4957-B003	8915	_
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nonprovisional	NO		\$1510	\$300		\$0		\$1810	04/13/2009	_
EXAM	INER		ART UNIT	CLASS-SUBCLASS						
MOON, SE	EOKYUN		2629	345-098000	_					
Change of corresponde CFR 1.363).	nce address or indicatio	n of "Fe	ee Address" (37	2. For printing on t	he pa	atent front page, lis	t			_
				(1) the names of up to 3 registered patent attorneys or agents OR, alternatively,						
Change of correspondence address (or Change of Correspondenc Address form PTO/SB/122) attached.				(2) the name of a single firm (having as a member a 2						
☐ "Fee Address" indication (or "Fee Address" Indication form PTO/SB/47; Rev 03-02 or more recent) attached. Use of a Customer Number is required.				registered attorney or agent) and the names of up to 2 registered patent attorneys or agents. If no name is 1 listed, no name will be printed.						
3. ASSIGNEE NAME AT										
PLEASE NOTE: Unle recordation as set forth	ess an assignee is ident 1 in 37 CFR 3.11. Comp	ified be detion	low, no assignee of this form is NO	data will appear on the Ta substitute for filing	ne pa	itent. If an assign issignment.	ee is io	entified below, the do	cument has been filed	I for
(A) NAME OF ASSIC				(B) RESIDENCE: (C						
Please check the appropri	ate assignee category or	catego	ries (will not be pr	inted on the patent):	۵	Individual 🚨 Co	orporati	on or other private gro	up entity 🗖 Governs	nent
4a. The following fee(s) a	are submitted:		46	. Payment of Fee(s): (	Plea	se first reapply ar	ıy prev	iously paid issue fee	shown above)	
Issue Fee A check is enclosed.										
			☐ Payment by credit card. Form PTO-2038 is attached. ☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any							
				overpayment, to I	)epo	sit Account Numbe	er	(enclose a	extra copy of this for	n).
<ol> <li>Change in Entity Stat</li> <li>Applicant claims</li> </ol>	us (from status indicate SMALL ENTITY state			☐ b. Applicant is no	lons	er claiming SMAI	L EN	TITY status. See 37 CF	R 1.27(g)(2).	
NOTE: The Issue Fee and interest as shown by the r	f Publication Fee (if requeered of the United Sta	uired) v tes Pate	will not be accepted ent and Trademark							ty in
Authorized Signature										
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This collection of informa an application. Confident submitting the completed this form and/or suggestic Box 1450, Alexandria, V Alexandria, Virginia 223	ation is required by 37 C iality is governed by 35 application form to the ons for reducing this bu- irginia 22313-1450. DC 13-1450.	FR 1.3 U.S.C. USPT rden, st O NOT	11. The information 122 and 37 CFR O. Time will vary nould be sent to the SEND FEES OR O.	on is required to obtain 1.14. This collection i depending upon the i e Chief Information O COMPLETED FORM	or n s esti ndiv ffice S TC	etain a benefit by t imated to take 12 i idual case. Any co r, U.S. Patent and D THIS ADDRESS	he pub minuter mmen Trader i. SEN	ic which is to file (and to complete, includin s on the amount of tir hark Office, U.S. Depa O TO: Commissioner i	by the USPTO to proof g gathering, preparing, ne you require to com- urtment of Commerce, for Patents, P.O. Box 1	ess) and olete P.O. 450,

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## NITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Offic Address: COMMISSIONER FOR PATENTS

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LOWE HAUPT	MAN HAM & BERN	MOON, SEOKYUN		
1700 DIAGONAL	L ROAD	ART UNIT	PAPER NUMBER	
SUITE 300 ALEXANDRIA,	VA 22314	2629		

# Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 284 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 284 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 (571)-272-4200.

# Notice of Allowability

Application No.	Applicant(s)				
10/511,868	LUK, KWOK HONG				
Examiner	Art Unit				
SEOKYUN MOON	2629				

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address-All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included
herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS
NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative
of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

- 1. This communication is responsive to the amendments submitted on October 02, 2008.
- The allowed claim(s) is/are 1,2,6-13 and 15-18.
- 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
  - a) 

    All b) 

    Some\* c) 

    None of the:
    - 1. A Certified copies of the priority documents have been received.
    - 2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_
    - Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).
  - \* Certified copies not received: \_\_\_\_\_.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.
THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

- 4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
- 5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
  - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review ( PTO-948) attached
    - 1) hereto or 2) to Paper No./Mail Date
  - (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date \_\_\_\_\_.

Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).

6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

## Attachment(s)

- 1. Notice of References Cited (PTO-892)
- 2. 
  Notice of Draftperson's Patent Drawing Review (PTO-948)
- Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 10/16/2004
- Examiner's Comment Regarding Requirement for Deposit of Biological Material
- 5. Notice of Informal Patent Application
- Interview Summary (PTO-413), Paper No./Mail Date .
- 7. X Examiner's Amendment/Comment
- 8. X Examiner's Statement of Reasons for Allowance
- 9. 🔲 Other \_\_\_\_

## EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or
additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR
1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the
payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with the Applicant's representative, Kien Le, on December 17, 2008 and January 05, 2008.

The application has been amended as follows:

## Specification

Pg 3 Line 29 - Please replace "Figure 1" with "Figures 1a and 1b".

Pg 3 Line 33 - Please replace "Figure 3" with "Figures 3a and 3b".

Pg 4 Line 1 - Please replace "Figure 4" with "Figures 4a and 4b".

## Claims

Regarding claim 1.

Please add "a time interval for driving" between the claim limitation, "a processor for sending a sequence of data blocks to the controller during", disclosed in line 11 and the claim limitation, "at least one dummy line of a frame", disclosed in lines 11 and 12.

Please add "the time interval for driving" between the claim limitation, "wherein no image data is to be sent to the display device during", disclosed in line 12 and the claim limitation, "said at least on dummy line", disclosed in lines 12 and 13.

Please replace the claim limitation, "said at least on dummy line", disclosed in lines 12 and 13 with "said at least one dummy line".

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Regarding claim 6,

Please add "a time interval for driving" between the claim limitation, "a processor for sending a sequence of data blocks to the controller during", disclosed in line 14 and the claim limitation, "at least one dummy line of a frame", disclosed in lines 14 and 15.

Please add "the time interval for driving" between the claim limitation, "wherein no image data is to be sent to the display device during", disclosed in line 15 and the claim limitation, "said at least on dummy line", disclosed in lines 15 and 16.

Please replace the claim limitation, "said at least on dummy line", disclosed in lines 15 and 16 with "said at least one dummy line".

Regarding claim 9,

Please add "a time interval for driving" between the claim limitation, "sending a sequence of data blocks to a controller of the display device during", disclosed in line 9 and the claim limitation, "at least one dummy line of a frame", disclosed in lines 9 and 10.

Please add "the time interval for driving" between the claim limitation, "wherein no image data is to be sent to the display device during", disclosed in line 10 and the claim limitation, "said at least one dummy line", disclosed in lines 10 and 11.

The following is an examiner's statement of reasons for allowance:

None of the prior arts of record teaches an electronic apparatus comprising a processor for sending a sequence of data blocks to a controller of the electronic apparatus during a time interval for driving at least one dummy line of a frame, wherein no image data is to be sent to a display device during the time interval for driving the at least one dummy line, wherein one of the data blocks is a predetermined bit pattern to be recognized by the controller, wherein the

the sequence into the memory.

display parameters are provided in the remaining data blocks of the sequence, and wherein if the controller does not recognize the predetermined bit pattern, the display parameters provided in the remaining data blocks of the sequence are ignored and if the controller recognizes the predetermined bit pattern, the display parameters are loaded from the remaining data blocks of

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance"

## Conclusion

4. Any inquiry concerning this communication or earlier communications from the examiner should be directed to SEOKYUN MOON whose telephone number is (571)272-5552.
The examiner can normally be reached on Mon - Fri (8:30 a.m. - 5:00 p.m.).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sumati Lefkowitz can be reached on (571) 272-3638. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Art Unit: 2629

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

January 7, 2009 /S. M./ Examiner, Art Unit 2629

/Sumati Lefkowitz/ Supervisory Patent Examiner, Art Unit 2629